

Product Description

Xho I is a Type IIP restriction endonuclease expressed in *Escherichia coli* carrying the Xho I gene cloned from *Xanthomonas holcicola* (ATCC 13461). Its recognition and cleavage sequences are shown below:

5'...C ↓ TCGAG...3'

3'...GAGCT ↑ G...5'

Components

Components	BR1G116-01 2,500 U	BR1G116-02 5,000 U	BR1G116-03 25,000 U
Xho I (20 U/μL)	1×0.125 mL	1×0.25 mL	2×0.625 mL
10× Cut-Buffer	1×1 mL	2×1 mL	7×1 mL

Unit Definition

One unit of activity is defined as the amount of enzyme required to completely cleave 1 μg of λDNA (Hind III-digested) fragments within 1 hour at 37°C.

Storage

Store at -20±5°C.

Notes

1. For research use only. Not for use in clinical diagnosis.
2. Mix thoroughly before use. Avoid repeated freeze-thaw cycles.
3. The volume of restriction endonuclease added should not exceed one-tenth of the total reaction volume.
4. Suitable for digestion of genomic DNA, plasmid DNA, and PCR products.
5. Digestion for longer than 3 h is not recommended, as prolonged incubation may lead to star activity.

Prepare Reaction Mix

Prepare the reaction mix on ice as follows:

Components	Volume per Reaction	Concentration in Master Mix
10× Cut-Buffer	5 μL	1×
Xho I (20 U/μL)	1 μL	0.4 U/μL
DNA Substrate	1 μg	—
ddH ₂ O	To 50 μL	—

Reaction Programe

Incubate at 37°C for 1 h. Heat inactivation: incubate at 65°C for 20 min.